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August 23, 2005

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Art Unit 1722

Attn: Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 10/725,538; Filed: December 3, 2003
For: **Hot Runner Co-Injection Nozzle**
Inventor: Denis BABIN
Our Ref: 2107.0320001

Sir:

Transmitted herewith for appropriate action are the following documents:

1. A non-electronic filing of:

 a. SKGF Cover Letter;

 b. First Information Disclosure Statement;

 c. Forms PTO/SB/08A and PTO/SB/08B (5 sheets);

 d. Copies of cited documents: FPD4-FPD27 and NPLD2-NPLD8; and

2. Return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Peter A. Socarras
Agent for Applicant
Registration No. 54,457

ALF/PAS/hmb
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No.: 3201
Denis BABIN	Art Unit: 1722
Appl. No.: 10/725,538	Examiner: Timothy W. Heitbrink
Filed: December 3, 2003	Atty. Docket: 2107.0320001
For: **Hot Runner Co-Injection Nozzle**	

First Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicant's Information Disclosure Statement filed on August 30, 2004 in connection with the above-captioned application.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicant has checked the appropriate boxes below.

☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.

☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date

of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☐ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of $_____ in payment of the fee under 37 C.F.R. § 1.17(p).

☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee.

Enclosed find our PTO-2038 Credit Card Payment Form in the amount of $_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

☒ 6. An English language abstract or English language translation of the non-English language documents FPD4-FPD15, FPD20, FPD23, and FPD25 are enclosed herewith in accordance with 37 C.F.R. § 1.98(a)(3).

☒ 7. Copies of documents FPD4-FPD27 and NPLD2-NPLD8 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached IDS Forms are submitted.

☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No._____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

☒ 9. Applicant wishes to bring to Examiner's attention co-pending and related U.S. Patent Application No. 11/113,359, filed on April 25, 2005, which has a common ownership with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Peter A. Socarras
Agent for Applicant
Registration No. 54,457

Date: August 23, 2005

1100 New York Avenue, N.W.
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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

Complete if Known	
Application Number	10/725,538
Filing Date	December 3, 2003
First Named Inventor	Denis BABIN
Art Unit	1722
Examiner Name	Timothy W. Heitbrink
Attorney Docket Number	2107.0320001

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AL1	3,374,502	03/26/1968	Lazzara	
	AM1	3,390,433	07/02/1968	Barnett *et al.*	
	AN1	3,417,433	12/24/1968	Teraoka	
	AO1	3,819,313	06/25/1974	Josephsen *et al.*	
	AP1	3,861,841	01/21/1975	Hanning	
	AQ1	4,279,582	07/21/1981	Osuna-Diaz	
	AR1	4,380,426	04/19/1983	Wiles *et al.*	
	AS1	4,420,452	12/13/1983	Van Dalen *et al.*	
	AT1	4,723,898	02/09/1988	Tsutsumi	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FPD4	JP 58-142833	08/25/1983	Kobe Seikosho KK		
	FPD5	JP 60-212321	10/24/1985	Yazaki Kakou KK		
	FPD6	JP 63-166511	07/09/1988	Nissei Plastics Ind Co		
	FPD7	JP 4-348923	12/03/1992	Mitsubishi Materials Corp.		
	FPD8	JP 6-8285	01/18/1994	Toyota Motor Corp.		
	FPD9	JP 6-166072	06/14/1994	Matsushita Electric Ind Co Ltd		
	FPD10	JP 7-266379	10/17/1995	Meiki Co Ltd		X
	FPD11	JP 9-1600	01/07/1997	Meiki Co Ltd		
	FPD12	JP 9-39033	02/10/1997	Sato Tekkosho KK		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1]Applicant's unique citation designation number (optional). [2]See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3]Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4]For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6]Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 5

Complete if Known	
Application Number	10/725,538
Filing Date	December 3, 2003
First Named Inventor	Denis BABIN
Art Unit	1722
Examiner Name	Timothy W. Heitbrink
Attorney Docket Number	2107.0320001

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA2	4,863,369	09/05/1989	Schad *et al.*	
	AB2	5,043,129	08/27/1991	Sorensen	
	AC2	5,112,212	05/12/1992	Akselrud *et al.*	
	AD2	5,141,696	08/25/1992	Osuna-Diaz	
	AE2	5,149,547	09/22/1992	Gill	
	AF2	5,192,555	03/09/1993	Arnott	
	AG2	5,238,378	08/24/1993	Gellert	
	AH2	5,260,012	11/09/1993	Arnott	
	AI2	5,389,315	02/14/1995	Yabushita	
	AJ2	5,454,995	10/03/1995	Rusconi *et al.*	
	AK2	5,478,520	12/26/1995	Kasai *et al.*	
	AL2	5,556,582	09/17/1996	Kazmer	
	AM2	5,605,707	02/25/1997	Ibar, Jean-Pierre	
	AN2	5,762,855	06/09/1998	Betters *et al.*	
	AO2	5,766,654	06/16/1998	Groleau	
	AP2	5,773,038	06/30/1998	Hettinga	
	AQ2	5,814,358	09/29/1998	Bock	
	AR2	5,849,236	12/15/1998	Tatham	
	AS2	5,919,492	07/06/1999	Tarr *et al.*	
	AT2	6,045,740	04/04/2000	Gorlich	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FPD13	JP 9-141688	06/03/1997	Towa KK		
	FPD14	JP 11-5232	01/12/1999	Matsushita Electric Ind. Co. LTD		
	FPD15	CN 2527427Y	12/25/2002	Shi Xiaoang		X
	FPD16	EP 0 624 449 A2	11/17/1994	Husky Injection Molding Systems Ltd		
	FPD17	EP 0 901 896 A2	03/17/1999	Kona Corp.		
	FPD18	EP 0 967 063 A1	12/29/1999	Dynisco Hotrunners, Inc.		
	FPD19	EP 1 013 395 A1	06/28/2000	Husky Injection Molding Systems Ltd		
	FPD20	DE 19802048 A1	07/22/1999	Baudisch Andreas		
	FPD21	WO 98/56564	12/17/1998	Incoe Corp.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

Complete if Known	
Application Number	10/725,538
Filing Date	December 3, 2003
First Named Inventor	Denis BABIN
Art Unit	1722
Examiner Name	Timothy W. Heitbrink
Attorney Docket Number	2107.0320001

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA3	6,090,318	07/18/2000	Bader *et al.*	
	AB3	6,099,767	08/08/2000	Tarr *et al.*	
	AC3	6,228,309	05/08/2001	Jones *et al.*	
	AD3	6,245,278	06/12/2001	Lausenhammer *et al.*	
	AE3	6,254,377	07/03/2001	Kazmer *et al.*	
	AF3	6,261,075	07/17/2001	Lee *et al.*	
	AG3	6,287,107	09/11/2001	Kazmer *et al.*	
	AH3	6,294,122	09/25/2001	Moss *et al.*	
	AI3	6,309,208	10/30/2001	Kazmer *et al.*	
	AJ3	6,343,921	02/05/2002	Kazmer *et al.*	
	AK3	6,343,922	02/05/2002	Kazmer *et al.*	
	AL3	6,361,300	03/26/2002	Kazmer *et al.*	
	AM3	6,558,603	05/06/2003	Wobbe *et al.*	
	AN3	6,683,283	01/27/2004	Schmidt	
	AO3	6,699,422	03/02/2004	Stemke	
	AP3	6,884,061	04/26/2005	Okamura *et al.*	
	AQ3	2002/0071888	06/13/2002	Bouti	
	AR3	2002/0121713	09/05/2002	Moss *et al.*	
	AS3	2003/0170340	09/11/2003	Sicilla *et al.*	
	AT3	2003/0224086	12/04/2003	Olaru	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FPD22	WO 99/54109	10/28/1999	Dynisco Hotrunners, Inc.		
	FPD23	WO 00/35655	06/22/2000	Moser		
	FPD24	WO 01/21377	03/29/2001	Dynisco Hotrunners, Inc.		
	FPD25	WO 01/36174	05/25/2001	Moser		
	FPD26	WO 01/60580	08/23/2001	Dynisco Hotrunners, Inc.		
	FPD27	WO 02/36324	05/10/2002	Synventive Molding Solutions, Inc.		
	FPD28					
	FPD29					
	FPD30					

Examiner Signature		Date Considered	

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Sheet 4 of 5

Complete if Known	
Application Number	10/725,538
Filing Date	December 3, 2003
First Named Inventor	Denis BABIN
Art Unit	1722
Examiner Name	Timothy W. Heitbrink
Attorney Docket Number	2107.0320001

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	AA4	2004/0109916	06/10/2004	Babin	
	AB4	2005/0079242	04/14/2005	Schmidt	
	AC4				
	AD4				
	AE4				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	10/725,538
				Filing Date	December 3, 2003
				First Named Inventor	Denis BABIN
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
Sheet	5	of	5	Attorney Docket Number	2107.0320001/PAS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T[2]
	NPLD2	"The Five Step Process" - An Industry Standard Process for Diagnosing and Isolating Cavity Variations in Multi-Cavity Injection Molds, Beaumont Runner Technologies, Inc. http://www.meltflipper.com/fivestep/fivestep.html; dated: March 15, 2004	
	NPLD3	"Micromolding Sizing Up the Challenges" by Mikell Knights, Senior Editor, Plastics Technology, http:/www.plasticstechnology.com; dated: November 23, 2001	
	NPLD4	Sensors and Data Acquisition for Injection Molding Cavity Pressure and Temperature Sensor and DataFlow; Kistler Japan Co., Ltd.; http://www.Kistler.co.lp; 2003	
	NPLD5	Tooling Innovations for Thermoset Molding; Nunnery *et al.*; www.bulkmolding.com/technical-papers/tooling thermosetmolding.pdf; 2003	
	NPLD6	Ewikon Hotrunner Systems for large parts; May 2000	
	NPLD7	SG-Link™ Wireless Strain Gauge System, www.microstrain.com; dated: April 29, 2004	
	NPLD8	"Pressure and Temperature Control of Multicavity Injection Mold with Hydraulic Valve Gate Hot Mold System," No. 301, p. 333, Research Disclosure, Kenneth Mason Publications, Hampshire, GB, May 1989, ISSN: 0374-4353	
	NPL9		
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